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				Applicant		Keiya Oza	wa et al.					
•	INFORMATION STATEMENT	RE IT	Filing Date		. July 13, 20							
	(Use several s	heets if necessa	ary)	Group		1636						
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1.8	OTHER DOCU	IMENTS (INCL	JDING AUTHOR, TITL	E, DATE, PLA	CE OF PUE	BLICATION)						
			y" Nature 392(Supp.):2									
	Cheok, "Cancer F	ears Cast Doub	ots on Future of Gene	herapy Natur	# 421: <del>678 (</del>	2003)	:					
W. V	O i ad al Elabibit	n. Effort of a S	oluble Transforming G Culture* <i>Journal of He</i>	rowth Factor β	Type II Red	ceptor on the	Activation of Rat					
DS-	1	<del></del>	Gene Therapy' BMJ 32									
2/2/04	Kekuta et al., 'Inf Cell Proliferation	ibition of B16 M and Activation of	Melanoma Experimenta of Antitumour Host Med	Metastasis by	Interferon nunology 10	2 through Dir 05:92-100 (20	rect Inhibition of 1002).					
<u> </u>	Kmies "Gene The	rapy" American	Scientist 87:240-247	(1999).		`						
	Marcinkowska ar Animals,* Acta Bi	rd Wiedlocha "S ochimica Polon	steroid Signal Transductica 49(3):735-745 (200	ction Activated	at the Cell	Membrane: f	rom Plants to					
	Manuyama et al Receptor," The J	*Proliferation a ournal of Biolog	nd Erythroid Differentia ical Chemistry, 269(8)	tion through th 5976-5980 (19	e Cytoplas 994).	mic Domain	of the Erythropole					
<u> </u>	Farrell et al., 'I	1-10 Inhibits Ma 3-Dependent a	acrophage Activation a nd -Independent Path	nd Proliferation	n by Distinc B <del>O Journ</del> al	t Signaling M 17(4):1006-	lectanisms: 1018 (1998).					
	Verma and Somi	e, "Gene Thera	py-Promises, Problem	s and Prospec	s." Nature	389:239-242	(1997).					
. ,	Wang et al., "Yeast Two-Hybrid System Demonstrates that Estrogen Receptor Dimenzation Is Ligand-Dependent Vivo," The Journal of Biological Chemistry, 270(40):23322-23329 (1995).											
•	i Vivo," The Jou			Winamel et al., "Autocrine Growth Inhibition by Transforming Growth Factor β-1 (TGFβ-1) in Human Neuroendocrine Tumour Cells, Gut 52:1308-1316 (2003).								
	Wromel et al "A	utocrine Growt	h Inhibition by Transfo	ming Growth	Factor β-1	(TGFB-1) in h	luman .					
	Wromel et al "A	utocrine Growt	h In <u>hibition by Transfo</u> Gut 52:1308-1316 (20	ming Growth		(TGFB-1) in h	<del>lum</del> an					



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	MENT OF COMMERCE	Attorney Docket No.		50026/012003			
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	FORE	IGN PATENT C	OR PUBLISHED FOREIG	N PATENT A	PPLICATIO	ON .	
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Durliatur	۱ ۲	he IL-6 Signal T	ransducer on130: An O				nverter for the LIF
Duplie	Gearing et al., "T	he IL-6 Signal T	ransducer on130: An O				nverter for the LIF
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M			thin a Dimer Interface H /," The EMBO Journal 1				onstitutive
<i>i</i>	Bazan, "Structura USA 87:6934-693		cular Evolution of a Cyto	kine Recept	or Superfa	mily," <i>Proc. I</i>	Vatl. Acad. Sci.
	Heldin, Dimeriza	tion of Cell Surface	Receptors in Signal Tr	ransduction," Cell 80:213-223 (1995).			
	Ihle, "Cytokine Re	ceptor Signalling,"	Nature 377:591-594 (1	995).			
			c Region of the Interleut atl. Acad. Sci. USA 88:1			r gp130 ls Co	onserved in the
	Ozawa et al., US	2002/0004582 A1,	published January 10,	2002.	-		
	Ozawa et al., US	2003/0166161 A1,	published September 0	4, 2003.			
	Omura et al., "Acceleration of Granulocyte Colony-Stimulating Factor-Induced Neutrophilic Nuclear Lobulation by Overexpression of Lyn Tyrosine Kinase," Eur. J. Biochem. 269:381-389 (2002).						
M			teroid Receptors from a ansions," Proc. Natl. Ac				
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Examiner's Initials			Country or Patent Office		Class	Subdass	Translation (Yes/No)	
M	Chan et al., "A	Murine Cytoki	JDING AUTHOR, TITLE, ne Fusion Toxin Specif ing Factor (GM-CSF) F F-Dependent Tumor Ce	ically Targe	eting the N	Murine Gran	Bone Marrow	
	Ito et al "G-CS	FR-Fstmaen-	R Fusion cDNA as a N matopoietic Stem Cells	ovel Select	ive Ampli	fier Gene fo	r Controllable	
	Transforming V	ariants," EMB	nditional Transformatio O J 12:2809-2819 (199	93).				
	Nagata and Fukunaga, "Granulocyte Colony-Stimulating Factor and its Receptor," <i>Prog. Growth Factor Res.</i> , 3:131-141 (1991).							
·	Ozawa et al., "Development of a Novel Selective Amplifier Gene for In Vivo Selective Expansion of Transduced Hematopoietic Stem Cells," (Abstract 161) Experimental Hematology 24:1053 (1996).							
M	Williams and P Factor/Interfeul	ark, "Hematop kin-3 Fusion P	poietic Effects of a Gran Protein," Cancer 67(Sup	nulocyte-Ma plement):2	acrophage 705-2707	Colony-St (1991).	imulating	
EXAMINER S			DATE C	ONSIDERE	4/2	9/22		
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M	Anderson, "Huma	n Gene Therap	oy" Nature 392(Supp.):25	-30 (1998).				
	Cheok, "Cancer F	ears Cast Dou	bts on Future of Gene Th	erapy" <i>Natur</i> e	421:678 (2	003).		
	Cui et al., "Inhibito Hepatic Stellate C	ory Effect of a S Cells in Primary	Soluble Transforming Gro Culture" Journal of Hepa	wth Factor β T tology 39:731-	ype II Rece 737 (2003)	eptor on the A	Activation of Rat	
	Juengst, "What N	ext for Human	Gene Therapy" BMJ 326	1410-1411 (20	003).			
			Melanoma Experimental I of Antitumour Host Mech					
	Kmiec "Gene The	rapy" <i>Americar</i>	Scientist 87:240-247 (1	999).				
			Steroid Signal Transducti ica 49(3):735-745 (2002		the Cell Mo	embrane: fro	m Plants to	
			nd Erythroid Differentiation ical Chemistry, 269(8):5			c Domain of	the Erythropoietin	
			crophage Activation and Independent Pathwa					
	Verma and Somia	, "Gene Thera	py-Promises, Problems a	nd Prospects,	Nature 38	9:239-242 (1	997).	
			System Demonstrates that Chemistry, 270(40):23			erization Is L	igand-Dependent	
M			n Inhibition by Transform Gut 52:1308-1316 (2003		ctor β-1 (TG	Fβ-1) in Hur	man ·	
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	OTHER DOCU	IMENTS (INCLUDING AUT	HOR, TITLE,	DATE, PLAC	E OF PUB	LICATION)	
M	Baumann et al., "S Mechanisms in Ho	Signaling by the Cytoplasmi epatic Cells," J Biol Chem.	ic Domain of H 269(23):16297	lematopoietir '-16304 (199	n Receptors 4).	s Involves Tv	vo Distinguishable
	Skoda et al., "Mur Transduces a Pro	ine c-mpl: a Member of the liferative Signal," EMBO J.	Hematopoieti 12(7):2645-26	c Growth Fac 553 (1993).	ctor Recept	or Superfam	ily that
h	Receptor Family:	racterization of the Murine Molecular Cloning, Chromo 2607-2615 (1993).	Mpl Proto-Oncosomal Location	ogene, a Me on and Evider	mber of the	Hematopoie unction in Ce	etic Cytokine II Growth,"
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